

Handwritten signature/initials

Notice of Allowability

Application No.

10/718,191

Examiner

Thanhha Pham

Applicant(s)

LEE ET AL.

Art Unit

2813

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 7/5/2006 and interview dated 8/10/2006.
2. ☒ The allowed claim(s) is/are 14-27.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

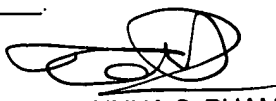
* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


THANHHA S. PHAM
PRIMARY EXAMINER

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Daniel McClure on 8/7/2006 & 8/10/2006.

The application has been amended as follows:

- In claim 14,
 - line 2, delete "having a plurality of edges and tips and"
 - line 3, before "wherein" insert – said integrated circuit chip having a plurality of side edges, top edges and top tips, –
 - line 3, before "tip" insert – top –
 - line 3, change "several edges meet" to – said top edges and side edge meet –
 - line 4, after "portions" insert – of said top tips –
 - line 5, change "which are neighboring the tips" to – including portions of said top edges and said side edges neighboring said top tips such that other portions of said top edges and said side edges being uncovered by said stress buffering material –
- In claim 17,
 - line 3, change "portions" to – top tips –

- In claim 21,
 - line 3, delete “having a plurality of edges and tips and”
 - line 4, before “wherein” insert – said integrated circuit chip having a plurality of side edges, top edges and top tips, –
 - line 4, before “tip” insert – top –
 - line 7, change “and” to – said stress buffering material –
 - line 8, after “portions” insert – of said top tips –
 - line 8, change “which are neighboring the tips” to – including portions of said top edges and said side edges neighboring said top tips such that other portions of said top edges and said side edges being uncovered by said stress buffering material–
- In claim 22,
 - line 3, change “portions” to – top tips –

Allowable Subject Matter

2. Claims 14-27 are allowed.
3. The following is an examiner’s statement of reasons for allowance:
 - Recorded Prior Art fails to disclose or suggest the combination structure of an integrated circuit chip package as recited in the base claim 14 including a stress buffering material only covering portions of said top tips of said integrated circuit chip including portions of said top edges and said side edges neighboring said top tips such

that other portions of said top edges and said side edges being uncovered by said stress buffering material.

► Recorded Prior Art fails to disclose or suggest the combination structure of an integrated circuit chip package as recited in the base claim 21 including a stress buffering material having substantially equal coefficient of thermal expansion to said integrated circuit chip, said stress buffering material only covering portions of said top tips of said integrated circuit chip including portions of said top edges and said side edges neighboring said top tips such that other portions of said top edges and said side edges being uncovered by said stress buffering material.

4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanhha Pham whose telephone number is (571) 272-1696. The examiner can normally be reached on Monday and Thursday 9:00AM - 9:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl Whitehead can be reached on (571) 272-1702. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for

Art Unit: 2813

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

A handwritten signature in black ink, consisting of a series of loops and a horizontal line at the bottom.

THANHHA S. PHAM
PRIMARY EXAMINER

TSP